What is claimed is:

1. A method of forming a gate dielectric on a transistor body region, comprising:

evaporating Al_2O_3 at a first rate;

evaporating La_2O_3 at a second rate; and

controlling the first rate and the second rate to provide a film containing $LaAlO_3$ on the transistor body region.

2. The method of claim 1, wherein evaporating Al_2O_3 and evaporating La_2O_3 includes evaporating dry pellets of Al_2O_3 and La_2O_3.

3. The method of claim 1, wherein evaporating La_2O_3 includes evaporating La_2O_3 by electron beam evaporation.

4. The method of claim 1, wherein controlling the first rate and the second rate includes controlling the first rate and the second rate to selectively provide a film composition having a predetermined dielectric constant.

5. The method of claim 4, wherein selectively providing a film composition having a predetermined dielectric constant includes providing a film composition with a dielectric constant ranging from the dielectric constant of an Al_2O_3 film to the dielectric constant of a La_2O_3 film.

6. The method of claim 1, wherein controlling the first rate and the second rate to provide a film containing $LaAlO_3$ includes providing an amorphous $LaAlO_3$ film.

7. The method of claim 1, wherein evaporating La_2O_3 begins substantially concurrent with beginning evaporating Al_2O_3.

8. The method of claim 1, wherein evaporating Al_2O_3 and evaporating La_2O_3 includes depositing $LaAlO_3$ on the transistor body region in a base pressure lower than about $5x10^{-7}$ Torr and in a deposition pressure lower than about $2x10^{-6}$ Torr.

9. The method of claim 1, further including annealing the transistor body region after providing the film containing $LaAlO_3$.

10. The method of claim 9, wherein annealing the transistor body region after providing the film containing $LaAlO_3$ includes annealing in N_2.

11. The method of claim 10, wherein annealing in N_2 includes annealing in an electric furnace at about 700°C.

12. The method of claim 10, wherein annealing in N_2 includes annealing in RTA in the range from about 800°C to about 900°C.

13. A method of forming a gate dielectric on a transistor body region, comprising:
evaporating Al_2O_3 at a first rate using a first electron gun;
evaporating La_2O_3 at a second rate using a second electron gun; and
controlling the first rate and the second rate to provide a film containing $LaAlO_3$ on the transistor body region.

14. The method of claim 13, wherein evaporating Al_2O_3 and evaporating La_2O_3 includes evaporating dry pellets of Al_2O_3 and La_2O_3.

15. The method of claim 13, wherein controlling the first rate and the second rate includes controlling the first rate and the second rate to selectively provide a film composition having a predetermined dielectric constant.

16. The method of claim 15, wherein selectively providing a film composition having a predetermined dielectric constant includes providing a film composition with a dielectric constant ranging from the dielectric constant of an Al_2O_3 film to the dielectric constant of a La_2O_3 film.

17. The method of claim 13, wherein controlling the first rate and the second rate to provide a film containing $LaAlO_3$ includes providing an amorphous $LaAlO_3$ film.

18. The method of claim 13, wherein evaporating La_2O_3 begins substantially concurrent with beginning evaporating Al_2O_3.

19. The method of claim 13, wherein forming the gate dielectric includes growing the film containing $LaAlO_3$ at a growth rate in the range from about 0.5 nm/min to about 50 nm/min.

20. The method of claim 13, further including annealing the transistor body region after providing the film containing $LaAlO_3$.

21. A method of forming a gate dielectric on a transistor body region, comprising:

evaporating Al_2O_3 at a first rate using a first electron gun;

evaporating La_2O_3 at a second rate using a second electron gun;

controlling the first rate and the second rate to provide a film containing $LaAlO_3$ on the transistor body region; and

annealing in N_2 after providing the film containing $LaAlO_3$ on the transistor body region.

22. The method of claim 21, wherein evaporating Al_2O_3 and evaporating La_2O_3 includes evaporating dry pellets of Al_2O_3 and La_2O_3.

23. The method of claim 21, wherein controlling the first rate and the second rate includes controlling the first rate and the second rate to selectively provide a film composition having a predetermined dielectric constant.

24. The method of claim 21, wherein controlling the first rate and the second rate to provide a film containing $LaAlO_3$ includes providing an amorphous $LaAlO_3$ film.

25. The method of claim 21, wherein evaporating La_2O_3 begins substantially concurrent with beginning evaporating Al_2O_3.

26. The method of claim 21, wherein evaporating Al_2O_3 and evaporating La_2O_3 includes depositing $LaAlO_3$ on the transistor body region in a base pressure lower than about 5×10^{-7} Torr and in a deposition pressure lower than about 2×10^{-6} Torr.

27. The method of claim 21, wherein annealing in N_2 includes annealing in an electric furnace at about 700°C.

28. The method of claim 21, wherein forming the gate dielectric includes growing the film containing $LaAlO_3$ at a growth rate in the range from about 0.5 nm/min to about 50 nm/min.

29. A method of forming a transistor, comprising:

forming first and second source/drain regions;

forming a body region between the first and second source/drain regions;

evaporating Al_2O_3 at a first rate;

evaporating La_2O_3 at a second rate;

controlling the first rate and the second rate to provide a film containing $LaAlO_3$ on the body region; and

coupling a gate to the film containing $LaAlO_3$.

30. The method of claim 29, wherein evaporating Al_2O_3 and evaporating La_2O_3 includes evaporating dry pellets of Al_2O_3 and La_2O_3.

31. The method of claim 29, wherein controlling the first rate and the second rate includes controlling the first rate and the second rate to selectively provide a film composition having a predetermined dielectric constant.

32. The method of claim 29, wherein selectively providing a film composition having a predetermined dielectric constant includes providing a film composition with a dielectric constant ranging from the dielectric constant of an Al_2O_3 film to the dielectric constant of a La_2O_3 film.

33. The method of claim 29, wherein controlling the first rate and the second rate to provide a film containing $LaAlO_3$ includes providing an amorphous $LaAlO_3$ film.

34. The method of claim 29, wherein evaporating La_2O_3 begins substantially concurrent with beginning evaporating Al_2O_3.

35. A method of forming a memory array, comprising:

forming a number of access transistors, comprising:

forming first and second source/drain regions;

forming a body region between the first and second source/drain regions;

evaporating Al_2O_3 at a first rate;

evaporating La_2O_3 at a second rate;

controlling the first rate and the second rate to provide a film containing $LaAlO_3$ on the body region. ; and

coupling a gate to the film containing $LaAlO_3$;

forming a number of wordlines coupled to a number of the gates of the number of access transistors;

forming a number of sourcelines coupled to a number of the first source/drain regions of the number of access transistors; and

forming a number of bitlines coupled to a number of the second source/drain regions of the number of access transistors.

36. The method of claim 35, wherein evaporating Al_2O_3 and evaporating La_2O_3 includes evaporating dry pellets of Al_2O_3 and La_2O_3.

37. The method of claim 35, wherein controlling the first rate and the second rate includes controlling the first rate and the second rate to selectively provide a film composition having a predetermined dielectric constant.

38. The method of claim 37, wherein selectively providing a film composition having a predetermined dielectric constant includes providing a film composition with a dielectric constant ranging from the dielectric constant of an Al_2O_3 film to the dielectric constant of a La_2O_3 film.

39. The method of claim 35, wherein forming the gate dielectric includes growing the film containing $LaAlO_3$ at a growth rate in the range from about 0.5 nm/min to about 50 nm/min.

40. A method of forming an information handling system, comprising:

forming a processor;

forming a memory array, comprising:

forming a number of access transistors, comprising:

forming first and second source/drain regions;

forming a body region between the first and second source/drain regions;

evaporating Al_2O_3 at a first rate;

evaporating La_2O_3 at a second rate;

controlling the first rate and the second rate to provide a film containing $LaAlO_3$ on the body region. ; and

coupling a gate to the film containing $LaAlO_3$;

forming a number of wordlines coupled to a number of the gates of the number of access transistors;

forming a number of sourcelines coupled to a number of the first source/drain regions of the number of access transistors;

forming a number of bitlines coupled to a number of the second source/drain regions of the number of access transistors; and

forming a system bus that couples the processor to the memory array.

41. The method of claim 40, wherein evaporating Al_2O_3 and evaporating La_2O_3 includes evaporating dry pellets of Al_2O_3 and La_2O_3.

42. The method of claim 40, wherein evaporating La_2O_3 and evaporating Al_2O_3 includes evaporating La_2O_3 and evaporating Al_2O_3 by electron beam evaporation.

43. The method of claim 40, wherein controlling the first rate and the second rate includes controlling the first rate and the second rate to selectively provide a film composition having a predetermined dielectric constant.

44. A transistor, comprising:

a first and second source/drain region;

a body region located between the first and second source/drain regions;

a dielectric layer containing $LaAlO_3$ coupled to a surface portion of the body region between the first and second source/drain regions, the dielectric layer including Al_2O_3, or La_2O_3; and

a gate coupled to the dielectric layer.

45. The transistor of claim 44, wherein the dielectric layer includes Al_2O_3, and La_2O_3.

46. The transistor of claim 44, wherein the dielectric layer is substantially amorphous.

47. The transistor of claim 44, wherein the dielectric layer exhibits a dielectric constant in the range from about 21 to about 25.

48. The transistor of claim 44, wherein the dielectric layer exhibits an equivalent oxide thickness (t_{eq}) in the range from about 1.5 Angstroms to about 5 Angstroms.

49. The transistor of claim 44, wherein the dielectric layer exhibits an equivalent oxide thickness (t_{eq}) of less than 3 Angstroms.

50. A memory array, comprising:

a number of access transistors, comprising:

a first and second source/drain region;

a body region located between the first and second source/drain regions;

a dielectric layer containing $LaAlO_3$ coupled to a surface portion of the body region between the first and second source/drain regions, the dielectric layer including Al_2O_3, or La_2O_3; and

a gate coupled to the dielectric layer;

a number of wordlines coupled to a number of the gates of the number of access transistors;

a number of sourcelines coupled to a number of the first source/drain regions of the number of access transistors; and

a number of bitlines coupled to a number of the second source/drain regions of the number of access transistors.

51. The memory array of claim 50, wherein the dielectric layer includes Al_2O_3, and La_2O_3.

52. The memory array of claim 50, wherein the dielectric layer is substantially amorphous.

53. The memory array of claim 50, wherein the dielectric layer exhibits a dielectric constant in the range from about 21 to about 25.

54. The memory array of claim 50, wherein the dielectric layer exhibits an equivalent oxide thickness (t_{eq}) in the range from about 1.5 Angstroms to about 5 Angstroms.

55. The memory array of claim 50, wherein the dielectric layer exhibits an equivalent oxide thickness (t_{eq}) of less than 3 Angstroms.

56. An information handling device, comprising:

a processor;

a memory array, comprising:

a number of access transistors, comprising:

a first and second source/drain region;

a body region located between the first and second source/drain regions;

a dielectric layer containing $LaAlO_3$ coupled to a surface portion of the body region between the first and second source/drain regions, the dielectric layer including Al_2O_3, or La_2O_3; and

a gate coupled to the dielectric layer;

a number of wordlines coupled to a number of the gates of the number of access transistors;

a number of sourcelines coupled to a number of the first source/drain regions of the number of access transistors;

a number of bitlines coupled to a number of the second source/drain regions of the number of access transistors; and

a system bus coupling the processor to the memory device.

57. The information handling device of claim 56, wherein the dielectric layer includes Al_2O_3, and La_2O_3.

58. The information handling device of claim 56, wherein the dielectric layer is substantially amorphous.

59. The information handling device of claim 56, wherein the dielectric layer exhibits a dielectric constant in the range from about 21 to about 25.

60. The information handling device of claim 56, wherein the dielectric layer exhibits an equivalent oxide thickness (t_{eq}) in the range from about 1.5 Angstroms to about 5 Angstroms.

61. The information handling device of claim 56, wherein the dielectric layer exhibits an equivalent oxide thickness (t_{eq}) of less than 3 Angstroms.

62. A transistor formed by the process, comprising:

forming a body region coupled between a first source/drain region and a second source/drain region;

evaporating Al_2O_3 at a first rate;

evaporating La_2O_3 at a second rate;

controlling the first rate and the second rate to provide a film containing $LaAlO_3$ on the body region; and

coupling a gate to the film containing $LaAlO_3$.

63. The transistor of claim 62, wherein evaporating Al_2O_3 and evaporating La_2O_3 includes evaporating dry pellets of Al_2O_3 and La_2O_3.

64. The transistor of claim 62, wherein evaporating Al_2O_3 and evaporating La_2O_3 includes evaporating Al_2O_3 using a first electron gun and evaporating La_2O_3 using a second electron gun.

65. The transistor of claim 62, wherein controlling the first rate and the second rate includes controlling the first rate and the second rate to selectively provide a film composition having a predetermined dielectric constant.

66. The transistor of claim 62, wherein the dielectric layer exhibits a dielectric constant in the range from about 21 to about 25.

67. The transistor of claim 62, wherein the dielectric layer exhibits an equivalent oxide thickness (t_{eq}) in the range from about 1.5 Angstroms to about 5 Angstroms.